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Member Services - Join IEEE - Establish IEEE Web Account	Changchang Wang; Xianhe Jin; Cheng, T.C.; Shibo Zhang; Zongdong Wang; Dong; Deheng Zhu; High Voltage Engineering, 1999. Eleventh International Symposium on (Conf. No. 467), Volume: 5, 23-27 Aug. 1999 Pages: 212 - 215 vol.5
O- Access the IEEE Member	[Abstract] [PDF Full-Text (188 KB)] IEE CNF

2 Computer-aided nonlinear simulation at the system level Loyka, S.L.; Mordachev, V.I.;

Electromagnetic Interference and Compatibility '97. Proceedings of the International Conference on , 3-5 Dec. 1997 Pages:93 - 98

[Abstract] [PDF Full-Text (592 KB)] **IEEE CNF**

3 Analysis and suppression of interference for on-line monitoring of p discharge of power transformers

Changchang Wang; Xianhe Jin; Cheng, T.C.; Shibo Zhang; Zuzhu Dong; Zhongdong Wang; Du Lin; Deheng Zhu;

Electrical Insulation and Dielectric Phenomena, 1997. IEEE 1997 Annual Repo Conference on , Volume: 2 , 19-22 Oct. 1997

Pages:530 - 533 vol.2

[Abstract] [PDF Full-Text (316 KB)] **IEEE CNF**

4 Computer-aided design of power line filters with a low cost commo differential-mode noise diagnostic circuit

Hsin-Lung Su; Ken-Huang Lin;

Electromagnetic Compatibility, 2001. EMC. 2001 IEEE International Symposiu

on , Volume: 1 , 13-17 Aug. 2001

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Optical interference produced by artificial light Adriano J. C. Moreira, Rui T. Valadas, A. M. de Oliveira Duarte May 1997 Wireless Networks, Volume 3 Issue 2

Full text available: pdf(366.44 KB) Additional Information: full citation, abstract, references, index terms

Wireless infrared transmission systems for indoor use are affected by noise and interference induced by natural and artificial ambient light. This paper presents a characterisation (through extensive measurements) of the interference produced by artificial light and proposes a simple model to describe it. These measurements show that artificial light can introduce significant in-band components for systems operating at bit rates up to several Mbit/s. Therefore it is essential to include it ...

Passive model order reduction: Model order reduction for strictly passive and causal distributed systems

Luca Daniel, Joel Phillips

June 2002 Proceedings of the 39th conference on Design automation

Full text available: pdf(175.64 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a class of algorithms suitable for model reduction of distributed systems. Distributed systems are not suitable for treatment by standard model-reduction algorithms such as PRIMA, PVL, and the Arnoldi schemes because they generate matrices that are dependent on frequency (or other parameters) and cannot be put in a lumped or state-space form. Our algorithms build on well-known projection-based reduction techniques, and so require only matrix-vector product operations and are ...

Keywords: distributed systems, passive reduced order modeling

Computer simulation and applications: Signal processing technique utilising fourier transform methods and Artificial Neural Network pattern recognition for interpreting complex data from a multipoint optical fibre sensor system

D. King, W. B. Lyons, C. Flanagan, E. Lewis

January 2004 Proceedings of the winter international synposium on Information and communication technologies

Full text available: pdf(148.20 KB) Additional Information: full citation, abstract, references

A multipoint (2 sensing elements) optical fibre based sensor system capable of detecting ethanol in water supplies is presented. The active sensing elements consist of an exposed

core U-bend configuration in order to maximise sensitivity and the sensing system is interrogated using Optical Time Domain Reflectometry (OTDR). Artificial Neural Network (ANN) Pattern Recognition techniques have been applied to the optical fibre sensor system data in order to accurately classify each sensor element te ...

4 Special issue on special feature: Ranking a random feature for variable and feature selection

Hervé Stoppiglia, Gérard Dreyfus, Rémi Dubois, Yacine Oussar March 2003 The Journal of Machine Learning Research, Volume 3

Full text available: pdf(103.01 KB) Additional Information: full citation, abstract, index terms

We describe a feature selection method that can be applied directly to models that are linear with respect to their parameters, and indirectly to others. It is independent of the target machine. It is closely related to classical statistical hypothesis tests, but it is more intuitive, hence more suitable for use by engineers who are not statistics experts. Furthermore, some assumptions of classical tests are relaxed. The method has been used successfully in a number of applications that are brie ...

Bidirectional reflection functions from surface bump maps

Brian Cabral, Nelson Max, Rebecca Springmeyer

August 1987 ACM SIGGRAPH Computer Graphics, Proceedings of the 14th annual conference on Computer graphics and interactive techniques, Volume 21 Issue

Full text available: pdf(1.65 MB)

Additional Information: full citation, abstract, references, citings, index terms

The Torrance-Sparrow model for calculating bidirectional reflection functions contains a geometrical attenuation factor to account for shadowing and occlusions in a hypothetical distribution of grooves on a rough surface. Using an efficient table-based method for determining the shadows and occlusions, we calculate the geometric attenuation factor for surfaces defined by a specific table of bump heights. Diffuse and glossy specular reflection of the environment can be handled in a unified manner ...

Special issue on independent components analysis: ICA for watermarking digital images

Stéphane Bounkong, Borémi Toch, David Saad, David Lowe December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(554.76 KB) Additional Information: full citation, abstract, index terms

We present a domain-independent ICA-based approach to watermarking. This approach can be used on images, music or video to embed either a robust or fragile watermark. In the case of robust watermarking, the method shows high information rate and robustness against malicious and non-malicious attacks, while keeping a low induced distortion. The fragile watermarking scheme, on the other hand, shows high sensitivity to tampering attempts while keeping the requirement for high information rate and lo ...

Relaxation methods for image reconstruction

Gabor T. Herman, Arnold Lent, Peter H. Lutz

February 1978 Communications of the ACM, Volume 21 Issue 2

Full text available: pdf(756.66 KB) Additional Information: full citation, abstract, references, index terms

The problem of recovering an image (a function of two variables) from experimentally available integrals of its grayness over thin strips is of great importance in a large number of scientific areas. An important version of the problem in medicine is that of obtaining the exact density distribution within the human body from X-ray projections. One approach that has been taken to solve this problem consists of translating the available information into a

system of linear inequalities. The si ... Keywords: X-ray tomography, biomedical image processing, image reconstruction, linear inequalities, mathematical programming, relaxation techniques Sequence Mining: Efficient and robust feature extraction and pattern matching of time series by a lattice structure Polly Wan Po Man, Man Hon Wong October 2001 Proceedings of the tenth international conference on Information and knowledge management Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.48 MB) The efficiency of searching scaling-invariant and shifting-invariant shapes in a set of massive time series data can be improved if searching is performed on an approximated sequence which involves less data but contains all the significant features. However, commonly used smoothing techniques, such as moving averages and best-fitting polylines, usually miss important peaks and troughs and deform the time series. In addition, these techniques are not robust, as they often requires users to suppl ... A Survey of Software for Partial Differential Equations Marek Machura, Roland A. Sweet December 1980 ACM Transactions on Mathematical Software (TOMS), Volume 6 Issue 4 Full text available: pdf(1.99 MB) Additional Information: full citation, references, citings, index terms 10 S-connect: from networks of workstations to supercomputer performance Andreas G. Nowatzyk, Michael C. Browne, Edmund J. Kelly, Michael Parkin May 1995 ACM SIGARCH Computer Architecture News, Proceedings of the 22nd annual international symposium on Computer architecture, Volume 23 Issue 2 Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.38 MB) terms S-Connect is a new high speed, scalable interconnect system that has been developed to support networks of workstations to efficiently share computing resources. It uses off-theshelf CMOS technology to directly drive fiber-optic systems at speeds greater than 1 Gbit/sec and can realize bisection bandwidths comparable to high-end MPP systems while being >10x more cost-effective. S-Connect systems do not rely on centralized switches, but rather are composed of adaptive, topology independen ... 11 Fourier volume rendering Tom Malzbender July 1993 ACM Transactions on Graphics (TOG), Volume 12 Issue 3 Full text available: pdf(1.76 MB) Additional Information: full citation, references, citings, index terms Keywords: Fourier transform, Hartley transform, projection, sampling, scientific visualization, volume rendering 12 Filtering by repeated integration Paul S. Heckbert August 1986 ACM SIGGRAPH Computer Graphics, Proceedings of the 13th annual

	conference on Computer graphics and interactive techniques, Volume 20 Issue	
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13	Jagged edges: when is filtering needed?	
	Avi C. Naiman October 1998 ACM Transactions on Graphics (TOG), Volume 17 Issue 4	
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	Depiction of oblique edges by discrete pixels usually results in visible stair steps, often called jaggies. A variety of filtering approaches exists to minimize this visual artifact, but none has been applied selectively only to those edges that would otherwise appear jagged. A recent series of experiments has led to a model of the visibility of jagged edges. Here, we demonstrate how these data can be used efficiently to determine when filtering of edges is needed to elimin	
	Keywords: image quality, jagged edges, jaggies, visual sensitivity	
14	Volume rendering II: Feature-preserving volume filtering László Neumann, Balázs Csébfalvi, Ivan Viola, Matej Mlejnek, Eduard Gröller May 2002 Proceedings of the symposium on Data Visualisation 2002	
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	In this paper a feature-preserving volume filtering method is presented. The basic idea is to minimize a three-component global error function penalizing the density and gradient errors and the curvature of the unknown filtered function. The optimization problem leads to a large linear equation system defined by a sparse coefficient matrix. We will show that such an equation system can be efficiently solved in frequency domain using fast Fourier transformation (FFT). For the sake of clarity, fir	
15	Poster: Integrated Wavelet and Fourier-Mellin invariant feature in fingerprint verification system	
	T. B. J. Andrew, N. C. L. David November 2003 Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications	
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	Today, minutiae-based and image-based are the two major approaches for the purpose of fingerprint authentication. Image based approach offers much higher computation efficiency with minimum pre-processing and proves also effective even when the image quality is too low to allow a reliable minutia extraction. However, this approach is vulnerable to shape distortions as well as variation in position, scale and orientation angle. In this paper, a novel method of image based fingerprint matching bas	
	Keywords : Fourier-Mellin Transform, Wavelet Transform, fingerprint verification, invariant features	
	Spatial anti-aliasing for animation sequences with spatio-temporal filtering Mikio Shinya September 1993 Proceedings of the 20th annual conference on Computer graphics and interactive techniques	
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Keywords: anti-aliasing, computer animation, spatio-temporal filtering

17	Session P13: tensor visualization: Tensor field visualisation using adaptive filtering of noise fields combined with glyph rendering Andreas Sigfridsson, Tino Ebbers, Einar Heiberg, Lars Wigström October 2002 Proceedings of the conference on Visualization '02	
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	While many methods exist for visualising scalar and vector data, visualisation of tensor data is still troublesome. We present a method for visualising second order tensors in three dimensions using a hybrid between direct volume rendering and glyph rendering. An overview scalar field is created by using three-dimensional adaptive filtering of a scalar field containing noise. The filtering process is controlled by the tensor field to be visualised, creating patterns that characterise the tensor f	
	Keywords : glyph rendering, hybrid rendering, strain-rate, tensor, visualisation, volume rendering	
18	Accumulation of Round-Off Error in Fast Fourier Transforms	
	Toyohisa Kaneko, Bede Liu October 1970 Journal of the ACM (JACM), Volume 17 Issue 4	
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	The fast Fourier transform (FFT) is an algorithm to compute the discrete Fourier coefficients with a substantial time saving over conventional methods. The finite word length used in the computer causes an error in computing the Fourier coefficients. This paper derives explicit expressions for the mean square error in the FFT when floating-point arithmetics are used. Upper and lower bounds for the total relative mean square error are given. The theoretical results are in good agreement with	
19	Picture Processing by Computer Azriel Rosenfeld September 1969 ACM Computing Surveys (CSUR), Volume 1 Issue 3	
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	Spectral processing of point-sampled geometry Mark Pauly, Markus Gross August 2001 Proceedings of the 28th annual conference on Computer graphics and interactive techniques	
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	We present a new framework for processing point-sampled objects using spectral methods.	

By establishing a concept of local frequencies on geometry, we introduce a versatile spectral representation that provides a rich repository of signal processing algorithms. Based on an adaptive tesselation of the model surface into regularly resampled displacement fields, our method computes a set of windowed Fourier transforms creating a spectral decomposition of the model. Direct analysis and manipulati ...

Keywords: Fourier transform, point-based representations, signal processing, spectral filtering, subsampling

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¹ EMIR: an expert system for electromagnetic interference resolution

J. E. Bowen, B. A. Boewn

June 1989 Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems -Volume 1

Full text available: pdf(513.96 KB) Additional Information: full citation, abstract, references, index terms

The increasing density and complexity of modern radio communications systems and the crowded electromagnetic environment make electromagnetic interference (EMI) a growing concern. To ensure electromagnetic compatibility (EMC) in Transport Canada (TC) installations, such as airports and air traffic control centres, improved methods for systems design, installation and maintenance are required. When Electromagnetic Interference is found to be a problem, immediate steps are taken to identify a ...

² User performance in relation to 3D input device design

Shumin Zhai

November 1998 ACM SIGGRAPH Computer Graphics, Volume 32 Issue 4

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, citings, index terms

Based mainly on a series of studies the author conducted at the University of Toronto, this article reviews the usability of various six degrees of freedom (6 DOF) input devices for 3D user interfaces. The following issues are covered in the article: the multiple aspects of input device usability (performance measures), mouse based 6 DOF interaction, mouse modifications for 3D interfaces, free-moving isotonic 6 DOF devices, desktop isometric and elastic 6 DOF devices, armature-based 6 DOF device ...

³ On temporal-spatial realism in the virtual reality environment

Jiandong Liang, Chris Shaw, Mark Green

October 1991 Proceedings of the 4th annual ACM symposium on User interface software and technology

Full text available: pdf(673.02 KB)

Additional Information: full citation, references, citings, index terms

⁴ E-textiles: Challenges and opportunities in electronic textiles modeling and optimization Diana Marculescu, Radu Marculescu, Pradeep K. Khosla June 2002 Proceedings of the 39th conference on Design automation

Full text available: pdf(769.90 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses an emerging new field of research that combines the strengths and capabilities of electronics and textiles in one: electronic textiles, or e-textiles. E-textiles, also called Smart Fabrics, have not only "wearable" capabilities like any other garment, but also local monitoring and computation, as well as wireless communication capabilities. Sensors and simple computational elements are embedded in e-textiles, as well as built into yarns, with the goal of gathering sensitive ...

5 Built-in self-test for signal integrity Mehrdad Nourani, Amir Attarha June 2001 Proceedings of the 38th conference on Design automation

Full text available: pdf(149.79 KB) Additional Information: full citation, abstract, references, index terms

Unacceptable loss of signal integrity may harm the functionality of SoCs permanently or intermittently. We propose a systematic approach to model and test signal integrity in deepsubmicron high-speed interconnects. Various signal integrity problems occurring on such interconnects (e.g. crosstalk, overshoot, noise, skew, etc.) are considered in a unified model. We also present a test methodology that uses a noise detection circuitry to detect low integrity signals and an inexpensive test ar ...

6 Interference of bluetooth and IEEE 802.11: simulation modeling and performance evaluation

N. Golmie, R. E. Van Dyck, A. Soltanian

July 2001 Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems

Full text available: pdf(657.91 KB) Additional Information: full citation, abstract, references, citings, index terms

The emergence of several radio technologies such as Bluetooth, and IEEE 802.11 operating in the 2.4 GHz unlicensed ISM frequency band may lead to signal interference and result in significant performance degradation when devices are co-located in the same environment. The main goal of this paper is to present a simulation environment for modeling interference based on detailed MAC and PHY models. This framework is then used to evaluate the impact of interference on the performance of Bluetoot ...

Keywords: IEEE 802.11, WPANs, bluetooth, interference

⁷ Interference evaluation of Bluetooth and IEEE 802.11b systems N. Golmie, R. E. Van Dyck, A. Soltanian, A. Tonnerre, O. Rébala May 2003 Wireless Networks, Volume 9 Issue 3

Full text available: pdf(203.73 KB) Additional Information: full citation, abstract, references, index terms

The emergence of several radio technologies, such as Bluetooth and IEEE 802.11, operating in the 2.4 GHz unlicensed ISM frequency band, may lead to signal interference and result in significant performance degradation when devices are colocated in the same environment. The main goal of this paper is to evaluate the effect of mutual interference on the performance of Bluetooth and IEEE 802.11b systems. We develop a simulation framework for modeling interference based on detailed MAC and PHY model ...

Keywords: Bluetooth, IEEE 802.11b, WPANs, interference

⁸ Health aspects of wireless communication: a real and present wireless danger James C. Lin January 2000 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 4 Issue 1

Full text available: pdf(227.31 KB) Additional Information: full citation, index terms

⁹ Columns: Risks to the public in computers and related systems

Peter G. Neumann

March 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 2

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	Hoffman	
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In this paper, we evaluate the HDAF (Hermite Distributed Approximating Functionals) family of interpolation and derivative functions, with respect to their accuracy for reliable volume rendering, and compare them with other interpolation and derivative estimation filters. We utilize several different evaluation methods, both analytical and experimental. The former includes the order of decay of the global error, the local spatial error, and the behavior of the filters in the frequency domain. In ...

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Azriel Rosenfeld

June 1973 ACM Computing Surveys (CSUR), Volume 5 Issue 2

Full text available: pdf(2.34 MB) Additional Information: full citation, references, citings, index terms

³ Intelligent scissors for image composition

Eric N. Mortensen, William A. Barrett

September 1995 Proceedings of the 22nd annual conference on Computer graphics and interactive techniques

Full text available: pdf(363.56 KB) ps(4.92 MB)

Additional Information: full citation, references, citings, index terms

⁴ Solution to the indexing problem of frequency domain simulation experiments Mousumi Mitra, Stephen K. Park

December 1991 Proceedings of the 23rd conference on Winter simulation

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2 Simulations and measurements of picosecond signal transients, propagation, and crosstalk on lossy VLSI interconnect

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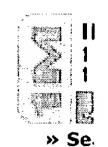
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